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APPLICATION NO.	.FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,921	09/16/2004	Noriyuki Komori	1190-0598PUS1	6788
	7590 11/23/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CII VA 22040 0747	RAMAKRISHNAIAH, MELUR		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2614	
			NOTIFICATION DATE	DELIVERY MODE
			11/23/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)				
·	10/507,921	KOMORI ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Melur Ramakrishnaiah	2614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be rill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ION. e timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on 16 Ja	nuary 2005.					
<u> </u>						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
ν closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-5,7-12,15-21,25 and 26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7-12,15-21,25 and 26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summ	(DTO 442)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	ary (PTO-413) I Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9-16-04/5-19-05. 5) Notice of Informal Patent Application 6) Other:						

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 5, 7-8 are rejected under 35 U.S.C 102(a) as being anticipated by Yasuhiro (JP2001-320461).

Regarding claim 1, Yasuhiro discloses a cellular phone equipped with a camera which can take a moving picture of a subject, the cellular phone with a built in camera comprising: a lighting device (Drawing 4) for lighting a subject be means of a lighting emitting diode (3, Drawing 4), a switching device (41, Drawing 3) for turning on the lighting device, a light distribution lens (reads on 31, Drawing 5) for condensing light radiated from the lighting device, toward the subject, a transparent cover (1, Drawing 4) for protecting the light distribution lens, the transparent cover being disposed on a subject side, of the lighting device (Paragraphs: 0018-0019; 0014; 0022-0023;0027).

Regarding claims 5, 7-8, Yasuhiro further teaches the following: transparent cover (1, Drawing 4) is formed of an integral part of a protection cover of component for producing a visual effect on the user of the cellular phone with a built-in camera, the lighting member is provided with a film like member (Drawing 5) of which front-to-back optical transmittance is lower than back-to-front optical transmittance, on a subject side, which is front side, of the light-emitting diode, the lighting device is provided with a component having a side orthogonal to the light emitted from the light-emitting diode as

shown in Drawing 5 and allowing the emitted from the light emitting diode to pass through, having an optical diffusion portion disposed on at least one orthogonal side for diffusing light (Paragraphs: 0018-0019; 0014; 0022-0023;0027).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro in view of Masato (JP2000089318A).

Yasuhiro differs from claims 3-4 in that he does not specifically teach the following: transparent cover has a convex lens portion formed to provide a condensing function of the light distribution lens, the transparent cover has a convex lens portion having a condensing function.

However, Masato discloses a lens system (10, fig. 1) integrally molded of a transparent synthetic resin so as to be close on the front side of the light emission diode (4, fig. 1, see abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Yasuhiro's system to provide for the following: transparent cover has a convex lens portion formed to provide a condensing function of the light distribution lens, the transparent cover has a convex lens portion having a

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condensing function as this arrangement would provide means for directing the light properly on the subject of the photograph.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro in view of Tatsuya et al. (JP07064207, hereinafter Tatsuya).

Yasuhiro differs from claim 2 in that he does not teach the following: light distribution lens comprises a supporting member that is mounted on the lighting device and supports the light distribution lens.

However, Tatsuya discloses linear light source which teaches the following: light distribution lens comprises a supporting member that is mounted on the lighting device and supports the light distribution lens (fig. 2, see abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Yasuhiro's system to provide for the following: light distribution lens comprises a supporting member that is mounted on the lighting device and supports the light distribution lens as this arrangement would facilitate to support lens system as taught by Tatsuya.

6. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro in view of Sawabe (JP07074394).

Yasuhiro differs from claims 9-12 in that he does not specifically teach: lighting device is provided with an optical diffusion plate with an optimal diffusion layer on the subject side, in front of the light-emitting diode, the light emitting device is provided with an optical diffusion plate with an optical diffusion layer disposed on the light-emitting diode, in front of the light-emitting diode, the lighting device has an optical diffusion layer

on the side of the light emitting diode of the optical diffusion plate on the subject side of the optical diffusion plate, the optical diffusion plate is formed in such a manner that an angle of light diffusion in a peripheral region becomes smaller than around an optical axis of the light-emitting diode.

However, Sawabe discloses light-emitting device which teaches using diffusion layer to manage light emitted by light emitting diode chip (fig. 1, see abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Yasuhiro's system to provide for the following: lighting device is provided with an optical diffusion plate with an optimal diffusion layer on the subject side, in front of the light-emitting diode, the light emitting device is provided with an optical diffusion plate with an optical diffusion layer disposed on the light-emitting diode, in front of the light-emitting diode, the lighting device has an optical diffusion layer on the side of the light emitting diode of the optical diffusion plate on the subject side of the optical diffusion plate, the optical diffusion plate is formed in such a manner that an angle of light diffusion in a peripheral region becomes smaller than around an optical axis of the light-emitting diode as this arrangement would provide means for managing light emissions to suite application requirements.

7. Claims 15-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro in view of Masato and Hiroshi (JP2001033851).

Yasuhiro differs from claims 15-21 in that he does not teach the following: the lighting device has the light emitting diode mounted on a printed circuit board, and the lighting device comprises a reflection portion having a highly reflective surface, at least

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around the light emitting diode on a surface of a printed circuit board where the light emitting diode is mounted, the reflection portion is formed on the printed circuit board by printing, the reflection portion is formed by fixing a film-like member having a highly reflective surface to the printed circuit board, the reflection portion is formed by fixing a structure which is shaped to encloses at least a part of the light-emitting diode and has a highly reflective surface on the side of the subject, on the printed circuit board, the structure of the reflection portion is formed with a resin of highly reflective color such as white, yellow, silver or gold, a surface of at least the subject side of the structure of the reflection portion is formed by coating in white, yellow, silver, or gold which is highly reflective color, the structure of the reflection portion has a surface formed of a metal film formed by evaporation or coating on at least one side of the subject.

However, Masato teaches an arrangement for light emitting diodes being fixed to the printed circuit board to provide illumination to facilitate camera to take pictures (fig. 1, see abstract) and Hiroshi teaches an arrangement with reflector (111, fig. 4) to efficiently utilize light quantity (see abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Yasuhiro's system to provide for the following: the lighting device has the light emitting diode mounted on a printed circuit board, and the lighting device comprises a reflection portion having a highly reflective surface, at least around the light emitting diode on a surface of a printed circuit board where the light emitting diode is mounted, the reflection portion is formed on the printed circuit board by printing, the reflection portion is formed by fixing a film-like member having a highly reflective

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surface to the printed circuit board, the reflection portion is formed by fixing a structure which is shaped to encloses at least a part of the light-emitting diode and has a highly reflective surface on the side of the subject, on the printed circuit board, the structure of the reflection portion is formed with a resin of highly reflective color such as white, yellow, silver or gold, a surface of at least the subject side of the structure of the reflection portion is formed by coating in white, yellow, silver, or gold which is highly reflective color, the structure of the reflection portion has a surface formed of a metal film formed by evaporation or coating on at least one side of the subject as this arrangement would provide one of the methods, among many possible methods to properly manage light source for required applications.

8. Claims 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro in view of Kerai et al. (US PAT: 6,518,993, filed 3-12-2001, hereinafter Kerai).

Yasuhiro differs from claims 25-26 in that he does not teach the following: the lighting device is provided with a plug which allows an electrical and mechanical connection to the cellular phone with a built in camera, and the main unit of the cellular phone with a built in camera has a jack to which plug can be detachably connected, a plug which allows an electrical and mechanical connection with the jack of the lighting device in the cellular phone with a built in camera.

However, Kerai discloses mobile imaging which teaches attaching modules such as camera to the cellular telephone by providing necessary connector plug (14, figs. 2A, 2B, col. 3, line 42 – col. 4, line 20).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Yasuhiro's system to provide for the following: the lighting device is provided with a plug which allows an electrical and mechanical connection to the cellular phone with a built in camera, and the main unit of the cellular phone with a built in camera has a jack to which plug can be detachably connected, a plug which allows an electrical and mechanical connection with the jack of the lighting device in the cellular phone with a built in camera as this arrangement would provide one possible way, among many possible ways, of connecting devices to the cellular telephone as taught by Kerai.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

--(7,136,672) to Kitano et al. discloses a mobile telephone equipped with camera that may employ as camera flash, one or more RGB tri-color LEDs arranged on the face of the mobile telephone which is aligned with the direction in which a photograph may be taken by the camera.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (571)272-8098. The examiner can normally be reached on 9 Hr schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curt Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melur Ramakrishnaiah Primary Examiner

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